



Secure Technology Application eXecution

STAX Overview

What is STAX

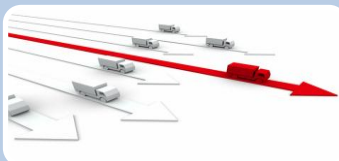
DISA STAX, Secure Technology Application execution, is DISA's cloud computing Platform as a Service (PaaS) offering.

- ✓ **STAX** allows for development, testing, and hosting of **Java and .NET web applications and web services**, with **DoD compliant** infrastructure and security features, managed by DISA
- ✓ **STAX** provides the methods for acquiring and operating the most **efficient and agile IT** in support of the DoD's mission of **anywhere, anytime, on any authorized device**.
- ✓ **STAX** instances include **Development, Testing, and Production** environments and **COOP** for one price
- ✓ **STAX** purchasing model offers a newer method for acquiring services – i.e. self service portal , combined service solutions.
- ✓ **STAX** integrates with DoD **Enterprise Services**, such as **Messaging** and **Enterprise Service Bus (ESB)**
- ✓ **STAX** is a **key enabler** of the **DoD Cloud Computing vision**

What are the Benefits?



Lower Cost. Cloud-based services are proven to reduce cost with faster acquisition, off-loading of IT installation and administration tasks, and pre-integration of enterprise-level services and technologies



Faster Delivery. STAX dramatically increases the speed to delivering new mission capabilities through pre-integration with Enterprise Services



Reduced Risk. STAX eliminates labor intensive, error prone engineering, integration, and application development by providing a consistent and predictable framework that supports industry standards.

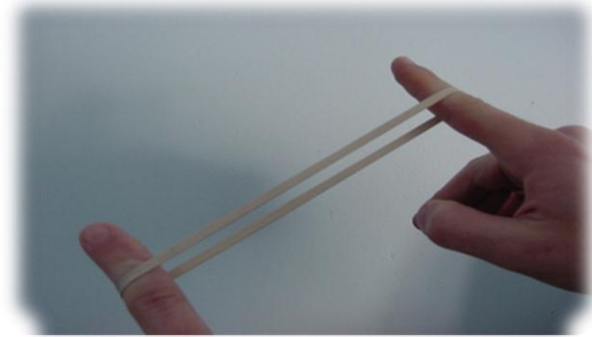


Rapid Prototyping. RACE and STAX provide capabilities for developers to create and deploy concept applications on the cloud for their customers. It provides a way to demonstrate results faster to end users.



Higher security and interoperability. RACE and STAX provide fully accredited systems that are compliant with DoD security policies - greater uniformity and standardization brings improved information assurance, security response, system management, reliability and maintainability.

Defining the Business Value of STAX



- **Elasticity/Scalability**

- Capacity only when you need it
- Ability to handle sudden load changes
- Ability to quickly adapt to changes in the external environment, leading to high business agility
- Secure multi-tenant environments
- Customers develop from anywhere on STAX of their own equipment with the STAX downloadable SDK (no purchase required)

- **Security**

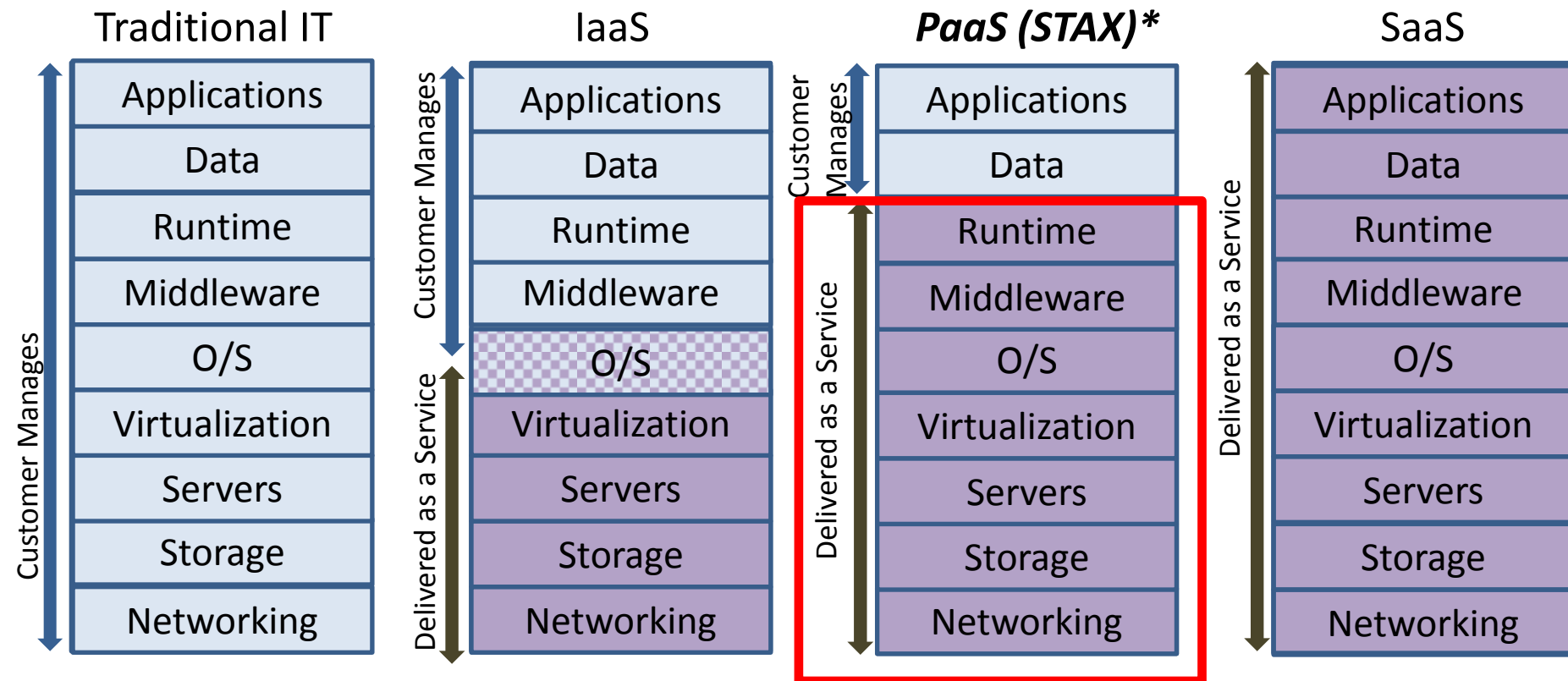
- Full ATO (type-accredited)
- COOP included standard

- **High-performance computing**

- Active infrastructure modification for efficient capacity management
- Avoid provisioning (and paying) for peak/surge loads with computing capacity on demand

How Does STAX Compare

How Does STAX Differentiate From Other IT Service Models...



- ✓ The **RED** box reflects the fully accredited path to production; the customer **only** needs to complete a Security Assertion - in accordance with the STAX certification checklist.
- ✓ STAX provides all operations and architecture up to, and including, the application execution engine. This means that the responsibility of the application owner is to write Java or .NET code and define the database structure and data.

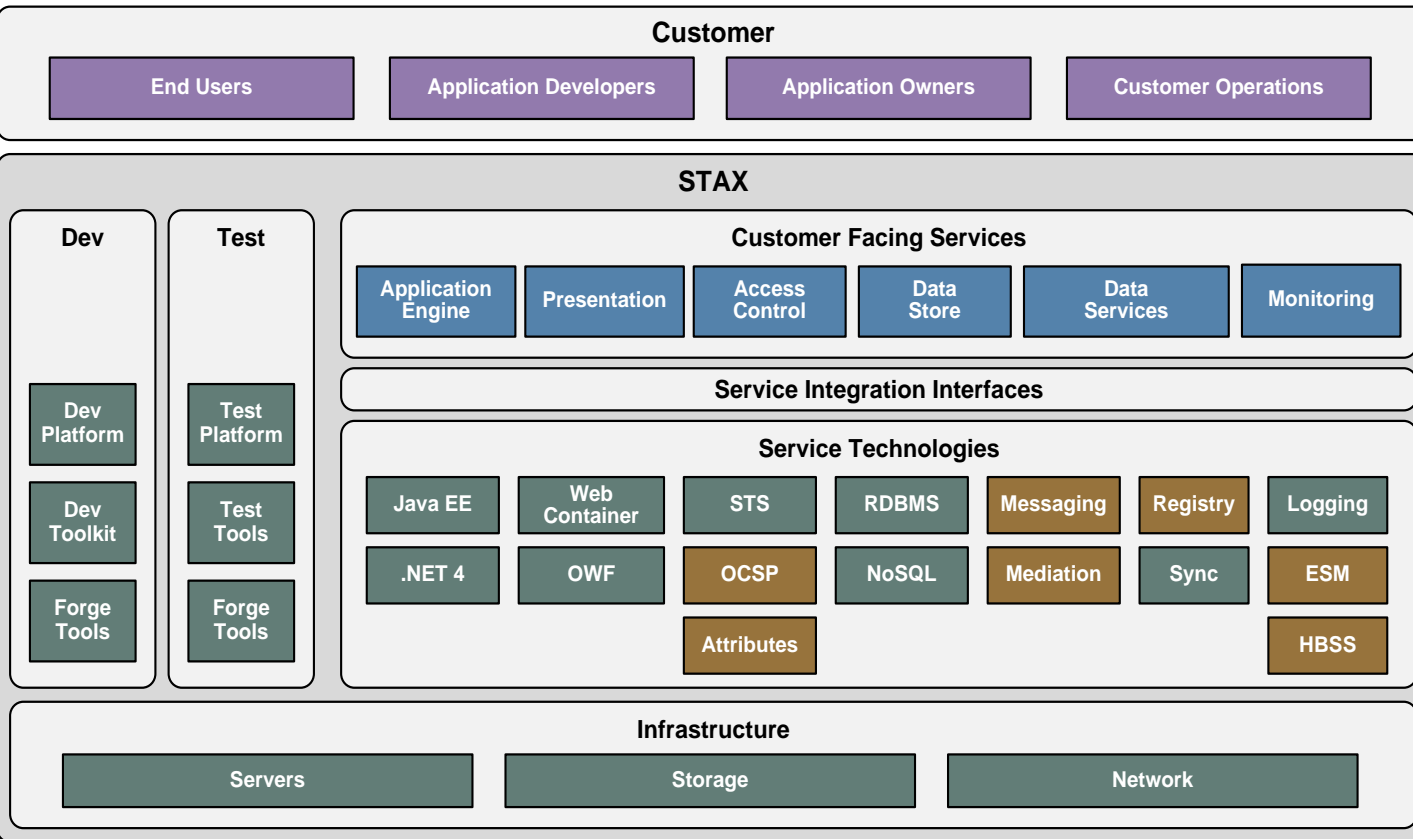
STAX Framework

Tenets

- Standards-based
- Maximize Open Source Software
- Vendor Neutrality
- Maximize Enterprise Services
- Portable
- Elastic and Scalable
- Customer Focused

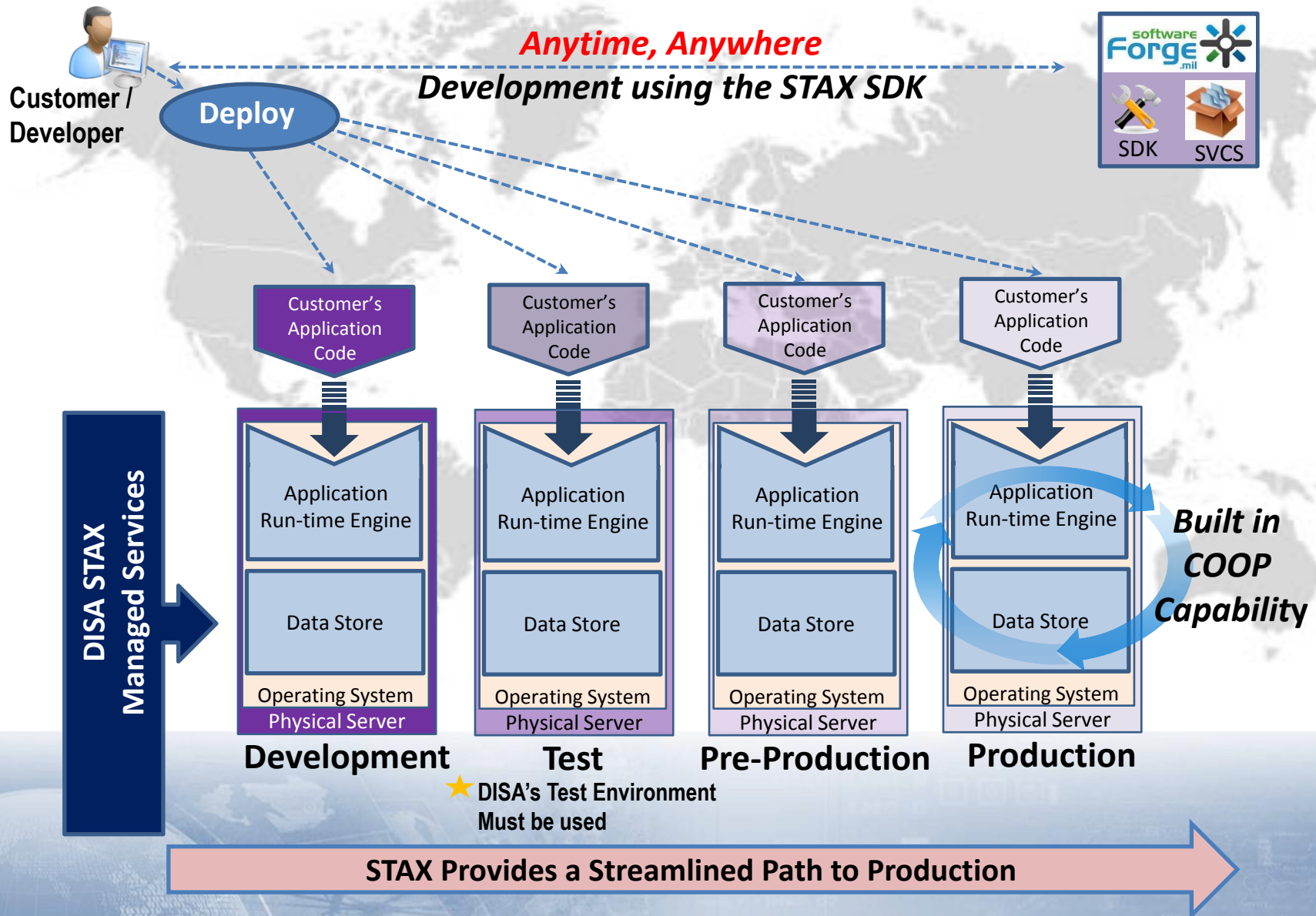
Features

- Continuity of Operations included
- Shared situational awareness
- Self-service
- Utility billing
- Rapid path to production
- Pre-integrated Enterprise Services
- Conforms to DOD security standards
- Type accredited

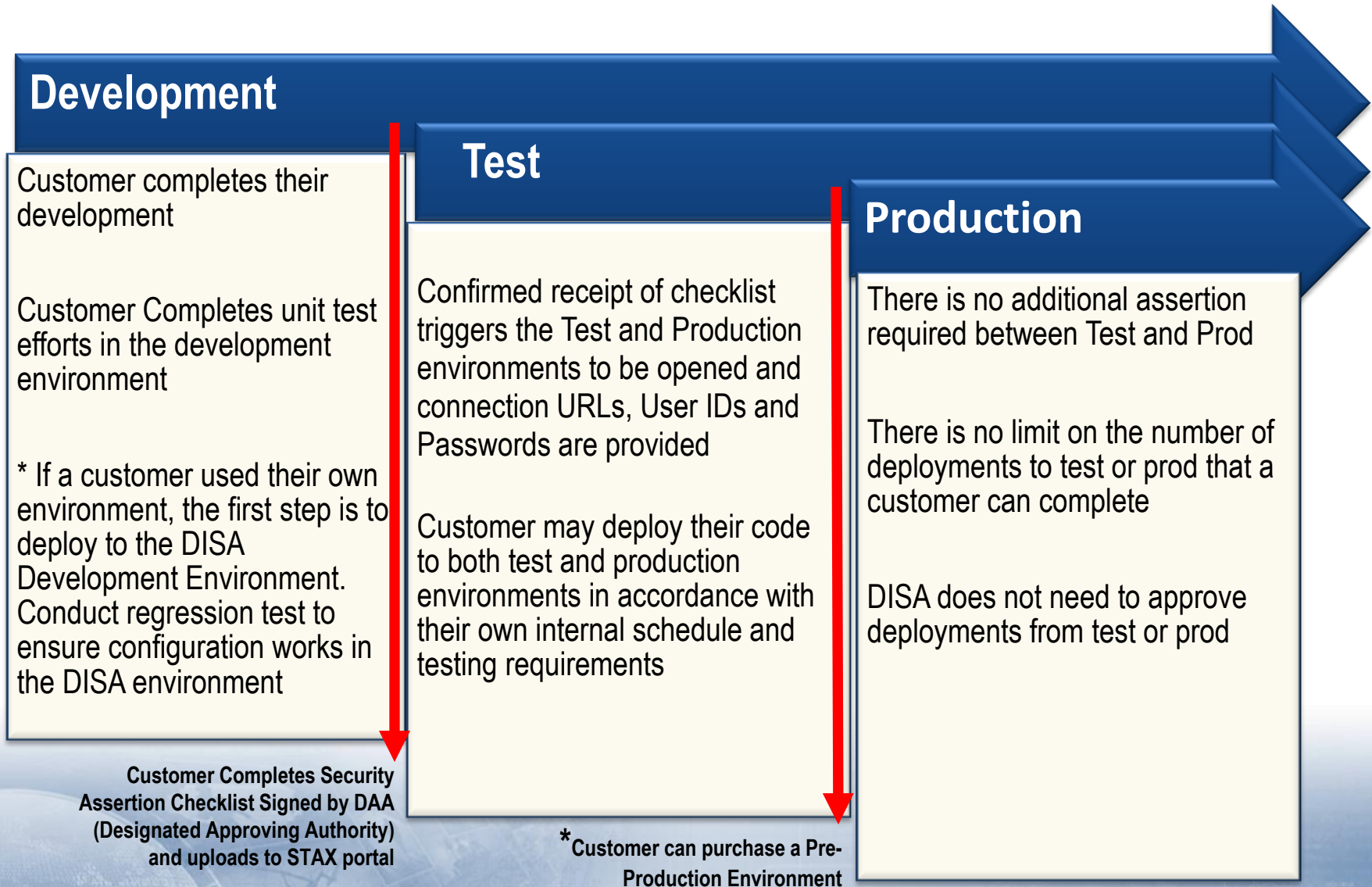


Providing Higher Quality and Faster Services at a Lower Price

STAX Path to Production



Development to Test to Production



STAX Production Roles & Responsibilities



Customer

Responsible for:

- Developing application code (developed and tested)
- Getting the security assertion for their code
- Deploying the code into the STAX runtime engine (can do this from anywhere)

SID Team

Responsible for:

- Serving as the Integration point for customer needs and DISA STAX Services & Operations Support

STAX

Responsible for:

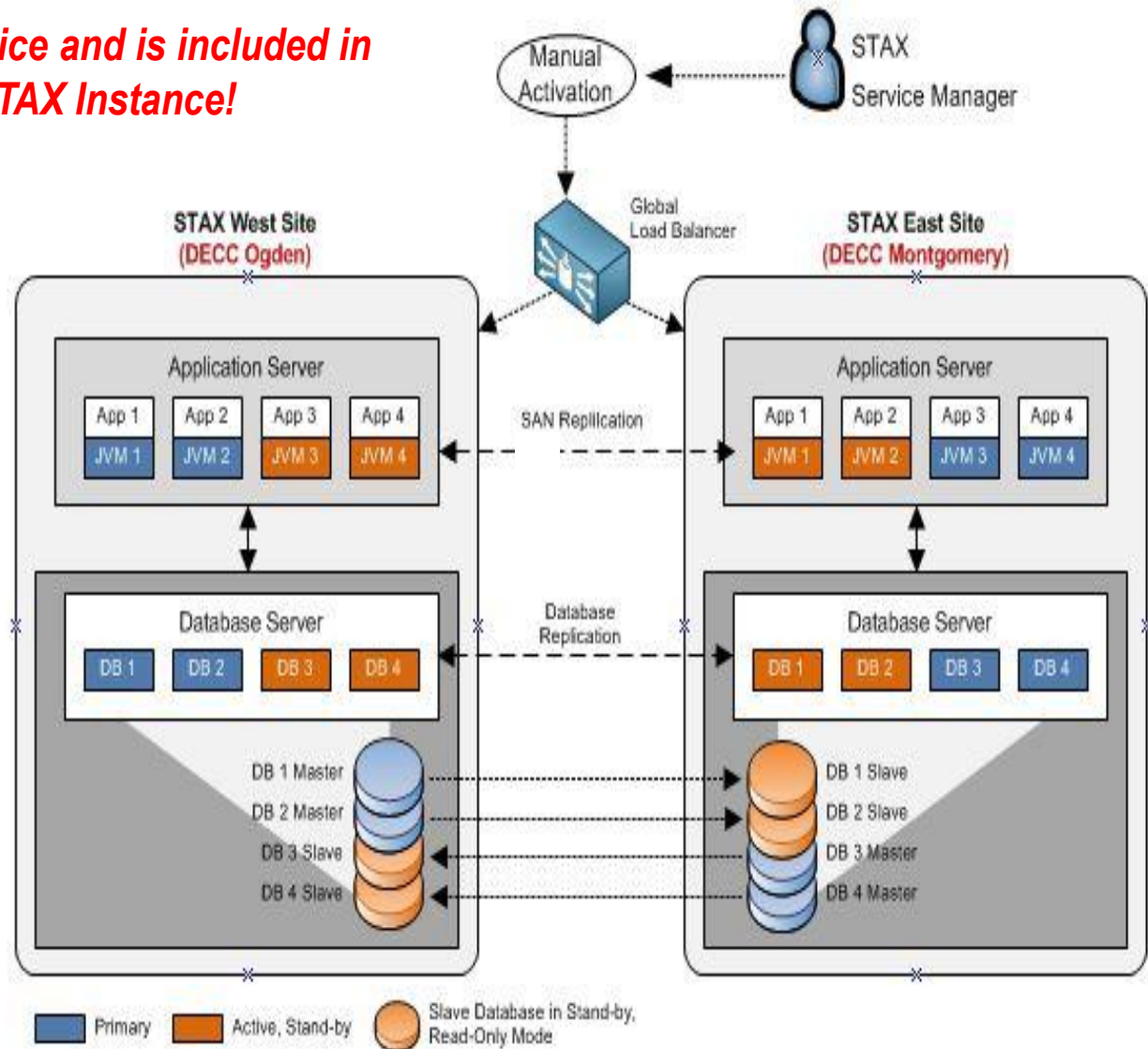
- Data storage
- Servers
- Interaction with Operating System
- Middleware
- Application runtime
- Network
- CND Services Tier 2 & 3

STAX COOP

★ **COOP is built into the service and is included in the purchase of any size STAX Instance!**

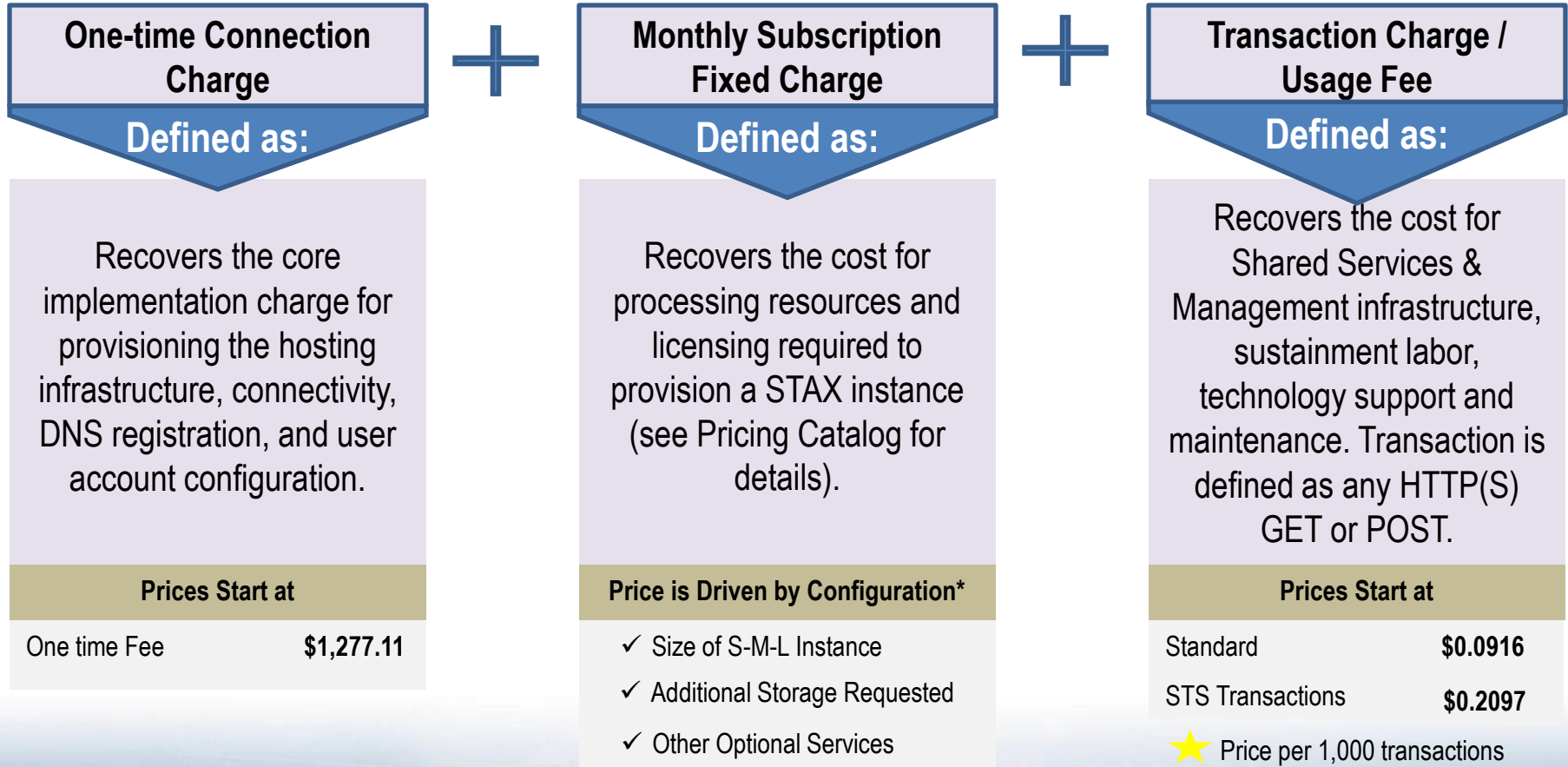
Key Features

- MAC II Service Levels with a 24 hour RTO/RPO
- MAC II/III Applications Supported
- Dedicated Web App & DB instances pre-provisioned at remote COOP site
- Customer data is replicated to slave DB at remote COOP site
- Remote COOP site remains in stand-by mode
- Failover sequence is activated and controlled at the global load balancer*



STAX Fee Definitions & Cost

The pricing model is flexible, with a **one-time connection charge**, a **monthly subscription fee** and a **monthly transaction / usage fee**.



- ✓ STAX falls under the Defense Working Capital Fund (DFCW); rates cover the cost of operating the service -no more, no less
- ✓ STAX is able to negotiate a price cap for applications that feature a high volume of HTTP transactions that would otherwise drive a high transaction charge

Get Started

Start developing your new mission capabilities with DISA STAX.

For additional information:

- DISA STAX Team at disa.stax@mail.mil
- STAX SDK <https://software.forge.mil/sf/projects/javapaas>

Appendix

1. STAX Pricing Sheet

Pricing Catalog

One-time only fee for each STAX instance acquired	
STAX Connection Charge	\$ 1,277.11

The following PaaS pricing includes Development, Test, and Production environments	
Item	Fee per Month
Small	\$ 1,216
2 core x 2 GB memory Application	
2 core x 4 GB memory DB	
Medium	\$ 1,606
2 core x 4 GB memory Application	
4 core x 8 GB memory DB	
Large	
4 core x 8 GB memory Application	\$ 5,009
8 core x 16 GB memory DB	

Usage Fees	
Resource	Fee
Content Delivery per 1000 Transactions	\$ 0.0916
STS Content Delivery per 1000 Transactions	\$ 0.2097

Storage fees above the 5GB included with each instance	
Storage	Fee
Per GB w/ COOP	\$ 5.00

Optional Services	
Item	Fee per Month
Additional App Server (automatically load balanced)	
Additional Small	\$ 644
Additional Medium	\$ 736
Additional Large	\$ 1,718
High availability (Redundant App/DB on separate physical servers)	
Small	\$ 905
Medium	\$ 1,273
Large	\$ 2,855
Pre-production Instance (Does not include optional services)	
Small	\$ 555
Medium	\$ 777
Large	\$ 1,762
Oracle 11g Database (Includes licensing)	
Small (2 cores x 4 GB memory)	\$ 5,703
Med (4 cores x 8 GB memory)	\$ 11,405
Large (8 cores x 16 GB memory)	\$ 22,810
Microsoft SQLServer 2012 (Includes licensing)	
Small (2 cores x 4 GB memory)	\$ 2,195
Med (4 cores x 8 GB memory)	\$ 4,390
Large (8 cores x 16 GB memory)	\$ 8,780
Microsoft SQLServer Data Analysis (SSIS / SSAS / SSRS)	
Small (2 cores x 4 GB memory) each for SSIS / SSAS / SSRS	\$ 205
Med (4 cores x 8 GB memory) each for SSIS / SSAS / SSRS	\$ 441
Large (8 cores x 16 GB memory) each for SSIS / SSAS / SSRS	\$ 954

- ✓ Rates based on a cost/price model that includes assumptions related to customer adoption rates and transaction loads to break even; these variables will be tuned as the service goes live and progresses to capture real-world usage patterns